NCS TIB 87-18

NATIONAL COMMUNICATIONS SYSTEM

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TECHNICAL INFORMATION BULLETIN 87-18

RADIO FACSIMILE

VOLUME II: TEST RESULTS

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NATIONAL COMMUNICATIONS SYSTEM

SEP 13 1988

NCS-TS

Defense Technical Information Center
ATTN: DTIC-FDAC
Cameron Station
Alexandria, VA 22314-6145

Dear Mr. Proctor:

The enclosed Technical Information Bulletins are being returned to you as is for final processing. Per our telephone conversation, the pages in question are intentionally prepared to include poor facsimile tranmission examples.

for Donald D. Wilson
DENNIS BODSON
Assistant Manager
Technology & Standards

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

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19 ABSTRACT (Continue on reverse if necessary and identify by block number)

This volume contains the raw data obtained from tests of groups-1, ~~2~~ -2, and -3 FAX using the Government's HF simulator at Ft. Monmouth, NJ. Both the premessage exchange and the message portion of a FAX transmission are tested.

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NCS TECHNICAL INFORMATION BULLETIN 87-18

RADIO FACSIMILE
VOLUME II: TEST RESULTS

PROJECT OFFICER

DENNIS BODSON
Senior Electronics Engineer
Office of NCS Technology
and Standards

APPROVED FOR PUBLICATION:

Dennis Bodson

DENNIS BODSON
Assistant Manager
Office of NCS Technology
and Standards

FOREWORD

Among the responsibilities assigned to the Office of the Manager, National Communications System, is the management of the Federal Telecommunication Standards Program. Under this program, the NCS, with the assistance of the Federal Telecommunication Standards Committee identifies, develops, and coordinates proposed Federal Standards which either contribute to the interoperability of functionally similar Federal telecommunication systems or to the achievement of a compatible and efficient interface between computer and telecommunication systems. In developing and coordinating these standards, a considerable amount of effort is expended in initiating and pursuing joint standards development efforts with appropriate technical committees of the Electronics Industries Association, the American National Standards Institute, the International Organization for Standardization, and the International Telegraph and Telephone Consultative Committee of the International Telecommunication Union. This Technical Information Bulletin presents an overview of an effort which is contributing to the development of compatible Federal, national, and international standards in the area of facsimile. It has been prepared to inform interested Federal activities of the progress of these efforts. Any comments, inputs or statements of requirements which could assist in the advancement of this work are welcome and should be addressed to:

Office of the Manager
National Communications System
ATTN: NCS-TS
Washington, DC 20305-2010

VOLUME II

RADIO FACSIMILE TEST RESULTS

Final Report

Submitted to:

NATIONAL COMMUNICATIONS SYSTEM

8th & S. Courthouse Roads

Arlington, VA 22204

D E L T A I N F O R M A T I O N S Y S T E M S, I N C.

Horsham Business Center, Bldg. 3

300 Welsh Road

Horsham PA 19044

(215) 657-5270

Volume II - Radio Facsimile Test Results

This volume contains the raw data obtained from tests of groups-1, -2 and -3 FAX using The Government's HF simulator at Ft. Monmouth, New Jersey. (Volume I is the Final Report based on this data.) Both the premessage exchange and the message portion of a FAX transmission are tested. For a premessage test, five trials are made and the successes and failures are recorded. For the message test, the message is transmitted and the received document taken as the test result.

The tests are identified by a Roman numeral which may be followed by a letter, and a number. The numeral I identifies the base-line test, II indicates a test of a single impairment, and III is a composite test. The capital letter identifies the type of impairment, such as selective fading or noise; and the number identifies the degree of impairment.

It will be noted that variations in bandwidth are not included in the tests. The bandwidth was set (using external filters) to run from 600 to 2800 Hz.

Most tests are run for both the premessage exchange and the message portion of the transmission. In some cases, when the premessage exchange failed, the test of the message portion was still run by forcing the equipment to go to the message phase.

Legible Document per letter

Dist
A-1

Following is a list of those tests performed:

I. Base-line tests, single path, no noise, no impairments. These tests provide a basis for comparison.

II. Primary tests, single impairment. These tests measure the effect of one impairment at a time.

A. Gaussian noise (simulator setting plus 7.5 dB).

1. S/N = 10 dB (normal)
2. S/N = 12 dB
3. S/N = 14 dB
4. S/N = 16 dB
5. S/N = 22 dB

B. Impulse Noise

1. Random, 100/min, 1 m sec, 0 dB peak-to-rms signal
2. Random, 500/min, 1 m sec, 0 dB peak-to-rms signal
3. Random, 500/min, 1 m sec, 6 dB peak-to-rms signal

C. Multipath (= differential delay)

1. Two paths, equal attenuation, τ = 1 m sec, 1 Hz off-set.
2. Two paths, 3 dB difference, τ = 1 m sec, 1 Hz off-set.
3. Two paths, 6 dB difference, τ = 1 m sec, 1 Hz off-set.
4. Two paths, 9 dB difference, τ = 1 m sec, 1 Hz off-set.

5. Two paths, 12 dB difference, τ = 1 m sec, 1 Hz off-set.

6. Two paths, 15 dB difference, τ = 1 m sec, 1 Hz off-set.

7. Two Paths, 18 dB difference, τ = 1 m sec, 1 Hz off-set.

8. Three paths, 9 dB difference, τ = 1 and 0.5 m sec, 1 and 0.5 Hz off-set.

9. Three paths, 12 dB difference, τ = 1 and 0.5 m sec, 1 and 0.5 Hz off-set.

D. Flat Fading

1. Single path, Doppler spread = 1 Hz.

E. Doppler

1. Single Path, - 75 Hz
2. Single Path, + 75 Hz
3. Single Path, - 32 Hz
4. Single Path, + 16 Hz
5. Single Path, + 7 Hz
6. Single Path, + 10 Hz

III. Secondary tests with multiple impairments

C-1. Multipath, Doppler, and Gaussian Noise;
Two paths, 12 dB difference, 1 m sec delay,
1 Hz off-set, 21.5 dB S/N, 7 Hz Doppler.

C-2. Same as C-1 but with 19.5 dB S/N, and 16 Hz Doppler.

C-3. Same as C-2 but with impulse noise added. (500 ppm, 1 m sec duration 0 dB peak-to-rms)

C-4. Impulse Noise and Gaussian Noise only; single path, 14 dB S/N.

TEST I

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F 5

GROUP II S/F 5

GROUP III

	S/F	DATA RATE
1		
2	5	4800
3		
4		
5		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)? sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST I

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 09-09-86 10:19

GROUP II

DOCUMENT 09-09-86 10:14

GROUP III DATA RATE 4800 bps

DOCUMENT 09-09-86 10:02

	PATH NUMBER					
	1	2	3	4	5	6
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (msec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

COMBINER OFF

DELTA INFORMATION SYSTEMS, INC.
HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

FROM 09/09/86 10:1[illegible] P. 1 G 2

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TEST II-A-1 TYPE - PREMESSAGE

BW 600 TO 2800 HZ S/N 10 dB

PATHS 1 TRANSLATION 0 Hz

GROUP I S/F S, S, S, F, F, S

GROUP II S/F S, S, S, S, S (all unacceptable documents)

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	S	2400
4	F	
5	F	

← document cut off early

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
~~MEAN DOP (Hz)~~	~~0.0000~~	~~0.0000~~	~~0.0000~~	~~0.0000~~	~~0.0000~~	~~0.0000~~
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
~~SIGNAL (dBm)~~	~~-1.94~~	~~-204.86~~	~~-204.86~~	~~-204.86~~	~~-204.86~~	~~-204.86~~
SIGNAL (VRMS)	0.6197	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -4.4378 RMS Voltage: 0.464716

~~JAMMING OFF~~

TEST VI - A - 1

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 10 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 10:33

GROUP II

DOCUMENT 9-23-86 09:48

GROUP III DATA RATE 2400 bps

DOCUMENT 9-23-86 9:41

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-1.94	-204.86	-204.86	-204.86	-204.86	-204.86
SIGNAL (VRMS)	0.6197	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -4.4378 RMS Voltage: 0.464716

JAMMING OFF

DELTA INFORMATION SYSTEMS, INC.
HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

9.23.86 09:48

52

DELTA INFORMATION SYSTEMS, INC.
[illegible]

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DELTA INFORMATION SYSTEMS, INC.
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters.
a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

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a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

TEST II-A-2

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 12 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	5	2400
4	5	2400
5	5	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-1.32	-201.32	-201.32	-201.32	-201.32	-201.32
SIGNAL (VRMS)	0.6655	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -5.8188 RMS Voltage: 0.396402

JAMMING OFF

TEST II-A-2

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 12 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT

GROUP II

DOCUMENT

GROUP III DATA RATE 2400 bps

DOCUMENT 9-23-86 8:45

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-1.32	-201.32	-201.32	-201.32	-201.32	-201.32
SIGNAL (VRMS)	0.6655	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -5.8188 RMS Voltage: 0.396402

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-A-3

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 14 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	5	2400
4	5	2400
5	5	2400

this the system went to group I

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.88	-202.20	-202.20	-202.20	-202.20	-202.20
SIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -7.3774 RMS Voltage: 0.331289

JAMMING-OFF

TEST II-A-3

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 14 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 8:56

GROUP II

DOCUMENT

GROUP III DATA RATE 2400 bps

DOCUMENT 9-23-86 9:04

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.88	-202.20	-202.20	-202.20	-202.20	-202.20
SIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE-PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE ON, POWER IN dBm: 7.3774 RMS Voltage: 0.331289

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-A-4 TYPE - PREMESSAGE

BW 600 TO 2400 HZ S/N 16 dB

PATHS 1 TRANSLATION 0 Hz

GROUP I S/F S, S, S, S, S

GROUP II S/F S, S, S, S, S

GROUP III

	S/F	DATA RATE
1	S	2400
2	F	
3	S	2400
4	F	
5	S	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.57	-202.77	-202.77	-202.77	-202.77	-202.77
SIGNAL (VRMS)	0.7251	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.10000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -9.0738 RMS Voltage: 0.272511

TEST II-A-4

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 16 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I 5,5,5,5,5

DOCUMENT 9-23-86 10:18

GROUP II 5,5,5,5,5

DOCUMENT 9-23-86 10:09

GROUP III DATA RATE 2400 bps

DOCUMENT 09-23-86 09:21

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.57	-202.77	-202.77	-202.77	-202.77	-202.77
SIGNAL (VRMS)	0.7251	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE <OFF> PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON> POWER IN dBm: -9.0738 RMS Voltage: 0.272511

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

62

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[redacted]

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-A-5

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 22 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	S	4800
2	S	4800
3	S	4800
4	F	
5	S	4800

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
~~MEAN DOP (Hz)~~	~~0.0000~~	~~0.0000~~	~~0.0000~~	~~0.0000~~	~~0.0000~~	~~0.0000~~
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
~~SIGNAL (dBm)~~	~~-0.15~~	~~-202.92~~	~~-202.92~~	~~-202.92~~	~~-202.92~~	~~-202.92~~
SIGNAL (VRMS)	0.7612	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
~~DIVERSITY NO.~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -14.6514 RMS Voltage: 0.143385

~~JAMMING OFF~~

TEST II-A-5

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 22 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT

GROUP II 5,5,5,5,5

DOCUMENT 9-23-86 9:58

GROUP III DATA RATE 4800 bps

DOCUMENT 9:23:86 9:31

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.15	-202.92	-202.92	-202.92	-202.92	-202.92
SIGNAL (VRMS)	0.7612	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE-PEAK-OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: 14.6514 RMS Voltage: 0.143385

JAMMING OFF

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TEST II-B-1

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	5	2400
4	5	4800
5	5	4800

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE <ON>, RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST II-13-1

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT

GROUP II

DOCUMENT

GROUP III DATA RATE 4800 bps

" " 2400 "

DOCUMENT 9-24-86 08:55

9-24-86 09:00

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE <ON>, RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-B-2

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F 5,5,5,5,5

GROUP II S/F 5,5,5,5,5

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	5	2400
4	5	2400
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP (Hz)^2 s/s	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE ON: RANDOM 0.000 dB RF PEAK OUTPUT

FREQUENCY: 0.500000E+03 impulses/sec PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE OFF: POWER IN dBm: -40.0000 RMS Voltage: 0.007746

GAMING OFF

TEST II-B-2

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 09-24-86 09:51

GROUP II

DOCUMENT 09-24-86 09:41

GROUP III DATA RATE 2400 bps

DOCUMENT 09-24-86 09:08

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE <ON>, RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-13-3

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F 5,5,5,5,5

GROUP II S/F 5,5,5,5,5

GROUP III

	S/F	DATA RATE
1	F	2400
2	F	2400
3	F	2400
4	5	2400
5	5	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-6.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.3882	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE (ON): RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE OFF. POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST II-B-3 TYPE - MESSAGE

BW 600 TO 2800 HZ S/N ∞ dB

PATHS 1 TRANSLATION 0 Hz

GROUP I DOCUMENT 09-24-86 10:05

GROUP II DOCUMENT 09-24-86 09:30

GROUP III DATA RATE 2400 bps DOCUMENT 09-24-86 09:20

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-6.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.3882	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE <ON>; RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE OFF. POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

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The following is a list of various letters, numbers,

TEST II-C-1

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 equal

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-3.01	-3.01	-203.01	-203.01	-203.01	-203.01
SIGNAL (VRMS)	0.5477	0.5477	0.0000	0.0000	0.0000	0.0000
~~SIGNAL (ON/OFF)~~	~~<ON>~~	~~<ON>~~	~~OFF~~	~~OFF~~	~~OFF~~	~~OFF~~
DIVERSITY NO.	1	1	1	1	1	1

~~COMPOSITE RMS FADE RATE: 1.00000 Hertz~~

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

~~FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds~~

CHANNEL NOISE OFF, POWER IN dBm: -43.0103 RMS Voltage: 0.005477

JAMMING OFF

TEST II-C

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 equal

TRANSLATION 0 Hz

GROUP I

DOCUMENT

GROUP II

DOCUMENT

GROUP III DATA RATE 4800 bps (partial document only) DOCUMENT 09-23-86 11:09

2400 bps (partial document only) 09-23-86 11:14

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2-sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-3.01	-3.01	-203.01	-203.01	-203.01	-203.01
SIGNAL (VRMS)	0.5477	0.5477	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 1.00000 Hertz

IMPULSE NOISE -OFF, PERIODIC ---- 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE -OFF, POWER IN dBm: -43.0103 RMS Voltage: 0.005477

JAMMING OFF

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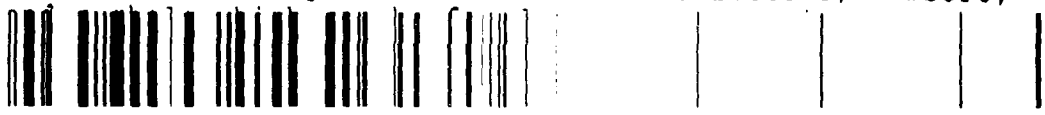
start of text →

The following is a list of various letters, numbers,



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-C-2

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 3dB diffuse

TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F

GROUP III

	S/F	DATA RATE
1		
2		
3		
4		
5		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-1.76	-4.76	-203.61	-203.61	-203.61	-203.61
SIGNAL (VRMS)	0.6322	0.4476	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	ON	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.65132 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -43.6077 RMS Voltage: 0.005113

JAMMING OFF

TEST II-C-2

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 3dB difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 15:19

GROUP II

DOCUMENT _____

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-1.76	-4.76	-203.61	-203.61	-203.61	-203.61
SIGNAL (VRMS)	0.6322	0.4476	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.65132 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -43.6027 RMS Voltage: 0.005113

JAMMING OFF

DELTA INFORMATION SYSTEMS, INC.
[illegible]

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-C-3

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 6db difference

TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) 2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.97	-6.97	-203.98	-203.98	-203.98	-203.98
SIGNAL (VRMS)	0.6925	0.3471	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.27380 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -43.9835 RMS Voltage: 0.004897

JAMMING OFF

TEST IIC-3

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 6db difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT 09-23-86 15:04

GROUP II

DOCUMENT _____

GROUP III DATA RATE 2400 bps partial document

DOCUMENT 09-23-86 11:21

	PATH NUMBER					
	1	2	3	4	5	6
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.97	-6.97	-203.98	-203.98	-203.98	-203.98
SIGNAL (VRMS)	0.6925	0.3471	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.27380 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -43.9835 RMS Voltage: 0.004897

JAMMING OFF

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HORSHAM, PA 19044
(215) 657-5270

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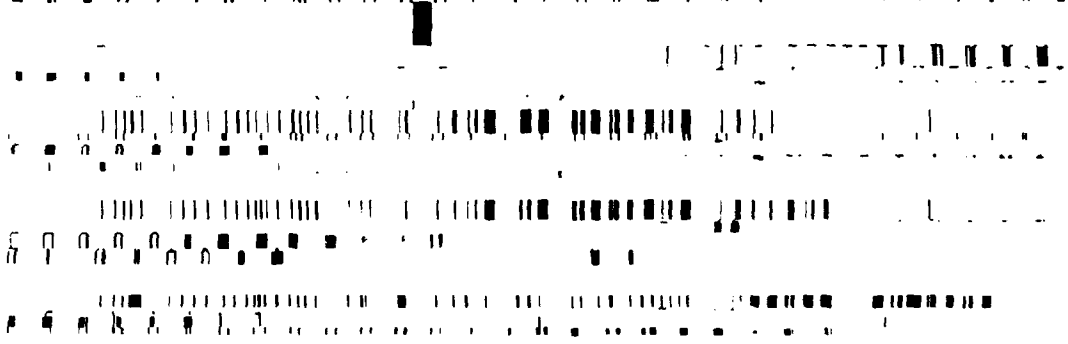
Test start → The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



TEST II-C-4 TYPE - PREMESSAGE

BW 600 TO 2800 HZ S/N ∞ dB

PATHS 2 9dB difference TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F S, S, F, S, S, F

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.51	-9.51	-204.76	-204.76	-204.76	-204.76
SIGNAL (VRMS)	0.7300	0.2590	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.10793 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -44.7642 RMS Voltage: 0.004476

JAMMING OFF

TEST II-C-4

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 9dB difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 09-23-86 11:54

GROUP III DATA RATE 2400 bps

DOCUMENT 09-23-86 11:43

	PATH NUMBER					
	1	2	3	4	5	6
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.51	-9.51	-204.76	-204.76	-204.76	-204.76
SIGNAL (VRMS)	0.7300	0.2590	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE-RMS FADE-RATE: 0.10793 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -44.7642 RMS Voltage: 0.004476

JAMMING OFF

[illegible]

DELTA INFORMATION SYSTEMS, INC.
[illegible]

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TEST II-C-4 TYPE - PREMESSAGE

BW 600 TO 2800 HZ S/N ∞ dB

PATHS 3 TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F F, F, F, F, F

GROUP III

	S/F	DATA RATE
1	3	2400
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	500	0	0	0
SIGNAL (dBm)	-0.98	-9.98	-9.98	-200.98	-200.98	-200.98
SIGNAL (VRMS)	0.6923	0.2456	0.2456	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	<ON>	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.50937 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.9753 RMS Voltage: 0.006923

JAMMING OFF

TEST II-C-4

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 3

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-24-86 11:17

GROUP II

DOCUMENT

GROUP III DATA RATE 2400 bps

DOCUMENT 9-24-86 11:07

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	500	0	0	0
SIGNAL (dBm)	-0.98	-9.98	-9.98	-200.98	-200.98	-200.98
SIGNAL (VRMS)	0.6923	0.2456	0.2456	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	ON	ON	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.50937 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.9753 RMS Voltage: 0.006923

JAMMING OFF

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[illegible]
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

11:07

[illegible]

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: [illegible]

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: [illegible]

The following is a list of [illegible]

TEST II-C-5

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 12 dB difference

TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	5	2400
4	5	2400
5	5	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.00
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.00
DELAY (usec)	0	1000	0	0	0	
SIGNAL (dBm)	-0.27	-12.27	-204.25	-204.25	-204.25	-204.
SIGNAL (VRMS)	0.7513	0.1887	0.0000	0.0000	0.0000	0.0(
SIGNAL (ON/OFF)	ON	ON	OFF	OFF	OFF	(
DIVERSITY NO.	1	1	1	1	1	

COMPOSITE RMS FADE RATE: 0.04331 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 secon

CHANNEL NOISE OFF, POWER IN dBm: -44.2493 RMS Voltage: 0.004749

JAMMING OFF

TEST II-C-5

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 12 dB difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 14.

GROUP II

DOCUMENT 9-23-86 13.

GROUP III DATA RATE 2400 bps

DOCUMENT 09-23-86 11. 2.

	PATH NUMBER					
	1	2	3	4	5	6
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1900	0	0	0	0
SIGNAL (dBm)	-0.27	-12.27	-204.25	-204.25	-204.25	-204.25
SIGNAL (VRMS)	0.7513	0.1887	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	ON	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.04331 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -44.2493 RMS Voltage: 0.004749

GAINING OFF

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HORSHAM PA 19044
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

DELTA INFORMATION SYSTEMS, INC.
[illegible]
300 WELSH ROAD
[illegible]
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

to 2400 not

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-C-6 TYPE - PREMESSAGE

BW 600 TO 2800 HZ S/N — dB

PATHS 2 15dB diffuse TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1		
2		
3		
4		
5		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.14	-15.14	-200.40	-200.40	-200.40	-200.40
SIGNAL (VRMS)	0.7626	0.1356	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.01787 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.4009 RMS Voltage: 0.007397

JAMMING OFF

TEST II-C-6

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 15dB difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 14:37

GROUP II

DOCUMENT 9-23-86 13:49

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.14	-15.14	-200.40	-200.40	-200.40	-200.40
SIGNAL (VRMS)	0.7626	0.1356	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.01787 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.4009 RMS Voltage: 0.007397

JAMMING OFF

DELTA INFORMATION SYSTEMS, INC.
HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

9.23.86 13:49

DELTA INFORMATION SYSTEMS, INC.
[illegible]

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-C-7

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 2 18dB diff

TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1		
2		
3		
4		
5		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.07	-18.07	-200.47	-200.47	-200.47	-200.47
SIGNAL (VRMS)	0.7685	0.0968	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00756 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.4692 RMS Voltage: 0.007339

JAMMING OFF

TEST II-C-7 TYPE - MESSAGE

BW 600 TO 2800 HZ S/N ∞ dB

PATHS 2 18 dB difference TRANSLATION 0 Hz

GROUP I DOCUMENT 09-23-86 14:13

GROUP II DOCUMENT 09-23-86 14:10

GROUP III DATA RATE _____ bps DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.07	-18.07	-200.47	-200.47	-200.47	-200.47
SIGNAL (VRMS)	0.7685	0.0968	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	ON	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00756 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.1692 RMS Voltage: 0.007339

JAMMING OFF

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DELTA INFORMATION SYSTEMS, INC.
[illegible]
[illegible]
[illegible]
[illegible]

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TEST II-C-89

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 3

TRANSLATION 0 Hz

GROUP I S/F 5,5,5,5,5

GROUP II S/F 5,5,5,f,f

GROUP III

	S/F	DATA RATE
1	5	2400
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6
MEAN DOP (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0.0
RMS DOP (Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0
DELAY (usec)	0	1000	500	0	0	
SIGNAL (dBm)	-9.52	-12.52	-12.52	-202.01	-202.01	-20
SIGNAL (VRMS)	0.7299	0.1933	0.1833	0.0000	0.0000	0.0
SIGNAL (ON/OFF)	ON	ON	ON	OFF	OFF	
DIVERSITY NO.	1	1	1	1	1	

COMPOSITE RMS FADE RATE: 0.50169 Hertz

IMPULSE NOISE OFF. PERIODIC 0.000 dB RE REAL OUTPUT
FREQUENCY: 0.100000E+02 impulse/min PULSE WIDTH: 0.000100 seco

CHANNEL NOISE OFF. POWER IN dBm: -42.0044 RMS Voltage: 0.006148

SIGNAL OFF

TEST II-C-89

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 3

TRANSLATION 0 H:

GROUP I

DOCUMENT 09-24-8(

GROUP II

DOCUMENT 09-24-86

GROUP III DATA RATE 2400 bps

DOCUMENT 09-24-86

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	
MEAN DOP (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0
DELAY (usec)	0	1000	500	0	0	
SIGNAL (dBm)	-0.52	-12.52	-12.52	-202.01	-202.01	-2(
SIGNAL (VRMS)	0.7299	0.1833	0.1833	0.0000	0.0000	0
SIGNAL (ON/OFF)	<ON>	<ON>	<ON>	OFF	OFF	
DIVERSITY NO.	1	1	1	1	1	

COMPOSITE RMS FADE RATE: 0.50169 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RF PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 sec(

CHANNEL NOISE OFF, POWER IN dBm: -42.0064 RMS Volts: 0.006148

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

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[illegible]

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e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X
Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c
e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X
Z ! @ # $ % & * ( ) - _ + = : ; " '

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e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X
Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c
e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X
Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c
e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X
Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c
e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X
Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c

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HORSHAM PA 19044
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-D-1 TYPE - PREMESSAGE

BW 600 TO 2800 HZ S/N ∞ dB

PATHS 1 TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5, 5, F, 5, 5

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	F	
4	F	
5	F	
6	5	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0(
RMS DOP(Hz)2 sig	1.0000	0.0000	0.0000	0.0000	0.0000	0.00
DELAY (usec)	0	0	0	0	0	
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0(
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	(
DIVERSITY NO.	1	1	1	1	1	

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 secon(

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST II-D-1 TYPE - MESSAGE

BW 600 TO 2800 HZ S/N ∞ dB

PATHS 1 TRANSLATION 0 Hz

GROUP I DOCUMENT 09-24-86 10!

GROUP II DOCUMENT 09-24-86 10!.

GROUP III DATA RATE 2400 bps DOCUMENT 09-24-86 10.3

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
RMS DOP(Hz/2 sid	1.0000	0.0000	0.0000	0.0000	0.0000	0.000
DELAY (usec)	0	0	0	0	0	
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.(
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.00(
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OI
DIVERSITY NO.	1	1	1	1	1	

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 second

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

DELTA INFORMATION SYSTEMS, INC
HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
215-657-5270

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e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
Z ! @ # $ % & * ( ) - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d
e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
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6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
Z ! @ # $ % & * ( ) - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-E-1

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION -25 Hz

GROUP I S/F

GROUP II S/F S,F,S,F,F

GROUP III

	S/F	DATA RATE
1		
2		
3		
4		
5		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-25.0000	0.0000	0.0000	0.0000	0.0000	0.000
RMS DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
DELAY (usec)	0	0	0	0	0	
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.0
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OF
DIVERSITY NO.	1	1	1	1	1	

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 second

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST II-E-1

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION -75 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 09-23-86 16

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-75.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

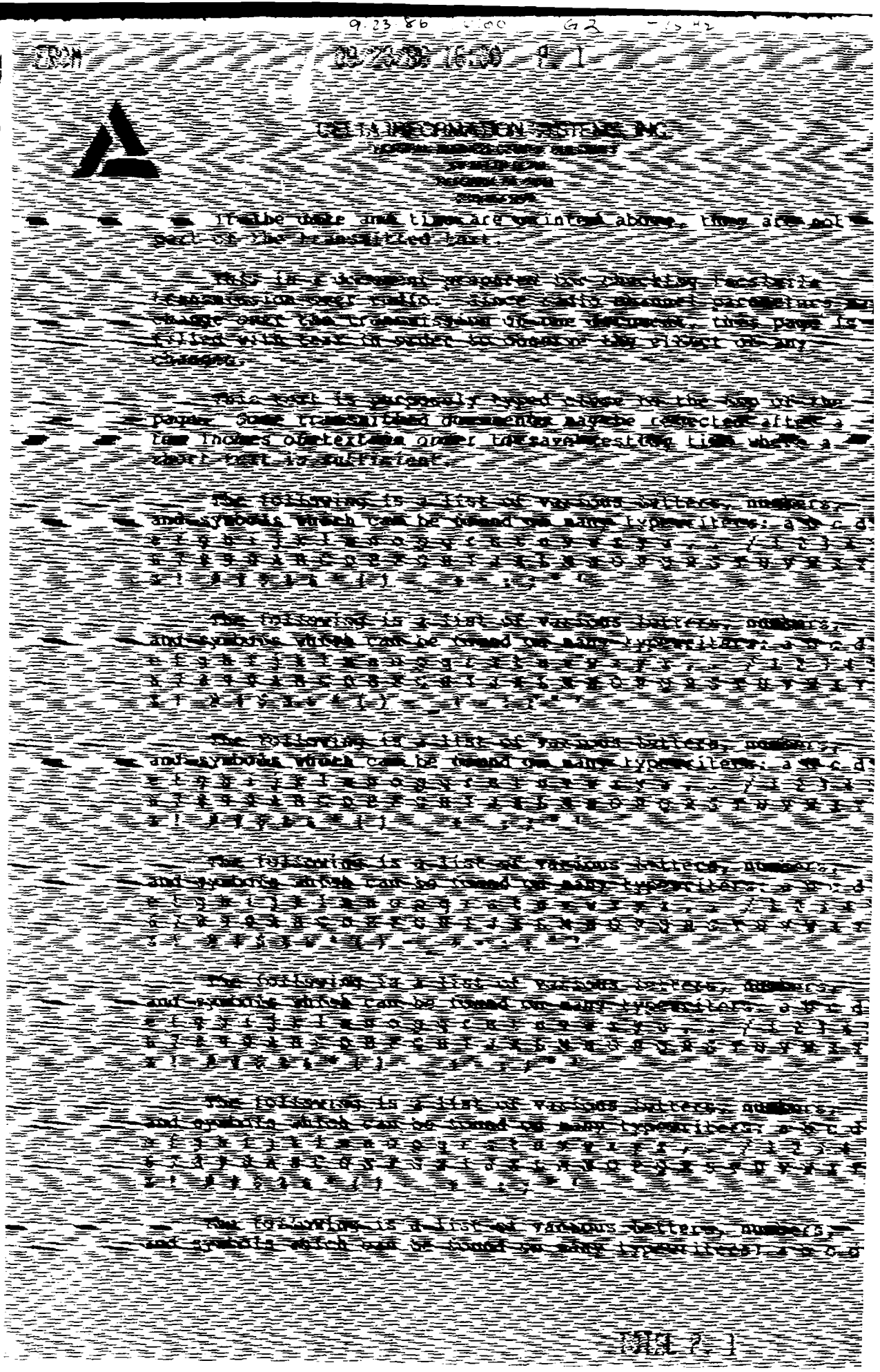
IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

ILCTM

9.23.86 1:00 G2 -1542



TEST II-E-2

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 75 Hz

GROUP I S/F S, S, S, S, S

GROUP II S/F S, f, f, f, f

GROUP III

	S/F	DATA RATE
1		
2		
3		
4		
5		

PATH NUMBER

	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	75.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

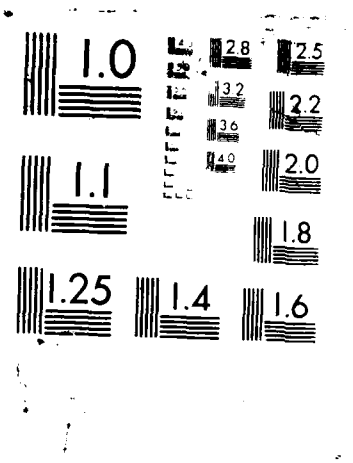
CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

SAMMING OFF

AD-A198 894 RADIO FACSIMILE VOLUME 2 TEST RESULTS(U) DELTA INFORMATION SYSTEMS INC HORSHAM PA D BODSON MAY 87 NCS-TIB-87-18-VOL-2 DCA100-87-C-0078 2/2

UNCLASSIFIED F/G 25/2 NL

END
DATE FILMED
11 88


1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0

TEST II-E-2

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 75 Hz

GROUP I

DOCUMENT 09-23-86 15:37

GROUP II

DOCUMENT 09-23-86 15:53

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	75.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

HAMMING OFF

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HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
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(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-E-3

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION -32 Hz

GROUP I S/F

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1		
2		
3		
4		
5		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-32.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -10.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST K-E

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION -32 Hz

GROUP I

DOCUMENT

GROUP II

DOCUMENT 09-23-86 16:12

GROUP III DATA RATE 4800 bps

DOCUMENT 09-23-86 17:12

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-32.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

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300 WELSH ROAD
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-E-4

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 16 Hz

GROUP I S/F

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1	5	4800
2	5	4800
3	5	4800
4	5	4800
5	5	4800

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST II-E-4

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 16 Hz

GROUP I

DOCUMENT

GROUP II

DOCUMENT 09-23-86 16:23

GROUP III DATA RATE 4800 bps

DOCUMENT 08-23-86

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

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300 WELSH ROAD
HORSHAM, PA 19044
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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-E-5

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 7 Hz

GROUP I S/F

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1	5	4800
2	5	4800
3	5	4800
4	5	4800
5	5	4800

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 si	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST II-E-5

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 7 Hz

GROUP I

DOCUMENT

GROUP II

DOCUMENT 09-23-86 16:33

GROUP III DATA RATE 4800 bps

DOCUMENT 09-23-86 16:43

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-E-6

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION +10 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	7	4800
2	5	4800
3	5	4800
4	5	4800
5	5	4800

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST II-E-6

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 10 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT _____

GROUP III DATA RATE 4800 bps

DOCUMENT 09-23-86

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST III-C-1

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

21.5
S/N 44 dB

PATHS 2

TRANSLATION 7 Hz

GROUP I S/F S, S, S, S, S

GROUP II S/F S, S, S, S, S

GROUP III

	S/F	DATA RATE
1	S	2400
2	F	
3	S	2400
4	F	
5	S	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	8.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.43	-12.43	-200.43	-200.43	-200.43	-200.43
SIGNAL (VRMS)	0.7376	0.1853	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS-FADE-RATE: 0.06822 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE ON, POWER IN dBm: -14.4254 RMS Voltage: 0.147166

JAMMING OFF

TEST III-C-I

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 21.5 dB

PATHS 2

TRANSLATION 7 Hz

GROUP I

DOCUMENT 09-24-86 13:53

GROUP II

DOCUMENT 09-24-86 14:05

GROUP III DATA RATE _____ bps

DOCUMENT 09-24-86 14:15

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	8.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.43	-12.43	-200.43	-200.43	-200.43	-200.43
SIGNAL (VRMS)	0.7376	0.1853	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.06822 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -14.4254 RMS Voltage: 0.147166

JAMMING OFF

DELTA INFORMATION SYSTEMS, INC.
HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
(215) 657 5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST III-C-2

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 19.5 dB

PATHS 2

TRANSLATION 16 Hz

GROUP I S/F 5,5,5,5,5

GROUP II S/F 5,5,5,5,5

GROUP III

	S/F	DATA RATE
1	5	2400
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2-sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.66	-10.66	-201.08	-201.08	-201.08	-201.08
SIGNAL (VRMS)	0.7182	0.2271	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.12303 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -12.6562 RMS Voltage: 0.180413

JAMMING OFF

TEST III-C-2

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ~~12~~ 19.5 dB

PATHS 2

TRANSLATION 16 Hz

GROUP I

DOCUMENT 09-24-86 14:46

GROUP II

DOCUMENT 9-24-85 14:37

GROUP III DATA RATE 2400 bps

DOCUMENT 9-24-85 14:33

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.66	-10.66	-201.08	-201.08	-201.08	-201.08
SIGNAL (VRMS)	0.7182	0.2271	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.12303 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -12.6562 RMS Voltage: 0.180413

JAMMING OFF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

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[illegible]
[illegible]
[illegible]
[illegible]

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST III-C-3

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ~~12~~ 19.5 dB

PATHS 2

TRANSLATION 16 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.66	-10.66	-201.08	-201.08	-201.08	-201.08
SIGNAL (VRMS)	0.7182	0.2271	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.12303 Hertz

IMPULSE NOISE <ON>, RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -12.6562 RMS Voltage: 0.180413

JAMMING OFF

TEST III-C-3

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 12 dB

PATHS 2

TRANSLATION 16 Hz

GROUP I

DOCUMENT 9-24-86 15:01

GROUP II

DOCUMENT 9-24-86 15:18

GROUP III DATA RATE 2400 bps

DOCUMENT 9-24-86 15:34

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.66	-10.66	-201.08	-201.08	-201.08	-201.08
SIGNAL (VRMS)	0.7192	0.2271	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.12303 Hertz

IMPULSE NOISE <ON>, RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -12.6562 RMS Voltage: 0.180413

JAMMING OFF

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TEST III-C-4

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 14 dB

PATHS #1

TRANSLATION 0 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5, 5, 5, 5, 5

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	5	2400
4	5	2400
5	5	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP (Hz) 2-sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.88	-201.05	-201.05	-201.05	-201.05	-201.05
SIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE <ON> - RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE <ON> - POWER IN dBm: -7.3774 RMS Voltage: 0.331289

JAMMING OFF

TEST III-C-4

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 14 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-24-86 16:11

GROUP II

DOCUMENT 9-24-86 16:02

GROUP III DATA RATE 2400 bps

DOCUMENT 9-24-85 15:52

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.88	-201.05	-201.05	-201.05	-201.05	-201.05
SIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE <ON>, RANDOM 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -7.3774 RMS Voltage: 0.331289

JAMMING OFF

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